

Message

From: Cashdollar, Jennifer [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=341010EA20014F059A33C49F880A7C36-CASHDOLLAR, JENNIFER]
Sent: 1/31/2018 6:13:33 PM
To: McDonald, Michael E. [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=506200f08ff944d7b1128e43628c5dd9-McDonald, Michael]
Subject: RE: Lead Poster from ISES - Jessica Frank and OPPT

Hi Mike,

I talked with Valerie about her meeting next week with Charles Bevington (OCSPP) and Eric Helm (OW). Her meeting with them is going to be at a higher level (on exposure dose modeling), and she didn't know if there would necessarily be time to get into details about what they need from a meta-analysis. I'm going to respond to Valerie's original message, and cc Charles and others to sort of "make introductions"...seems to me this needs to be a conversation between NERL line mgmt. and OCSPP on what their actual need is. Stay tuned!

Thanks,
Jen

From: McDonald, Michael E.
Sent: Tuesday, January 30, 2018 11:15 AM
To: Cashdollar, Jennifer <Cashdollar.Jennifer@epa.gov>
Subject: FW: Lead Poster from ISES - Jessica Frank and OPPT

Jen - This (below) is the response Jessica sent to Charles in response to his questions. I guess I would be ok with Valerie following up with Charles to get a better read of what's needed and when. However, I wouldn't want to make any commitments for Jessica's time (or anybody's) without knowing more. Jessica is working with Betsy on Ports, but it sounds like she'd be willing to help depending on the time frame and amount of time needed. If Jessica is not available, perhaps we should talk with Lindsay about others that might help out. Happy to talk to you about this. - m

From: Frank, Jessica
Sent: Tuesday, January 16, 2018 1:27 PM
To: Bevington, Charles <Bevington.Charles@epa.gov>
Cc: Xue, Jianping <Xue.Jianping@epa.gov>; Brown, James <Brown.James@epa.gov>; Zartarian, Valerie <Zartarian.Valerie@epa.gov>; McDonald, Michael E. <McDonald.Michael@epa.gov>; Smith, Betsy <Smith.Betsy@epa.gov>
Subject: RE: Lead Poster from ISES

Hi Charles,

It is great to hear back from you. I have discussed your questions with Valerie and Jim who are both familiar with the meta-analysis work. Below are answers to some of your questions. We do think a follow-up call is necessary to gain some clarification on the timeline for your proposal, and to further discuss the best way to move forward. I will follow-up to schedule a phone discussion. Below are answers to your questions.

1) Could you provide the studies that were identified in the literature search and included in the meta-analysis, specifically for dust? I can send an EndNote library with the included/excluded articles for the database creation. This is a large file, so I will need to use OneDrive or SharePoint. I will follow-up. *Also, the meta-analyses used subsets from the database. The subsets were based on sampling characteristics, and the type of data reported.

2) Was a contractor used to conduct the literature search? Could you share the QAPP, if so?

Jessica was the primary point person for developing the search logic, and conducting the search. Tony Poulakos provided feedback on the process. Our project fell under the scope of the attached SHEDS-MM & IEUBK QAPP that is attached.

3) Are there plans to publish this work in its current form?

Jessica is currently working on a draft publication for review.

4) Could you share the inclusion criteria for extraction?

Attached is the inclusion/exclusion list used for the database creation. Not all articles added to the database were used in the meta-analysis. For example, we recorded articles to the database that only reported min, median, max values, but didn't include these data in the meta-analysis.

5) Could you share how non-detects were treated, specifically for lead dust? We did not put inclusion/exclusion requirements on how BLDs were handled for summary data reported in the literature. In instances where we summarized raw data, half of the BLD was used for non-detects.

6) Did you track how often lead was reported in multiple media—for example dust + blood or with different metrics---dust loading + dust concentration? For articles included in our database, we did indicate whether other media were reported. I haven't tallied that up for each media type, but for the dust-blood it looks like we have 7 articles total. Though, some report arithmetic means and others report geometric statistics. In our database, we have 3 articles that report both dust loading and dust concentration. Those are the following:

Thomas, Kent W., Edo D. Pellizzari, and Maurice R. Berry. "Population-based dietary intakes and tap water concentrations for selected elements in the EPA region V National Human Exposure Assessment Survey (NHEXAS)." *Journal of Exposure Analysis & Environmental Epidemiology* 9, no. 5 (1999).

Piacitelli, Greg M., et al. "Elevated lead contamination in homes of construction workers." *American Industrial Hygiene Association* 58.6 (1997): 447-454.

Clark, Scott, et al. "The relationship between surface dust lead loadings on carpets and the blood lead of young children." *Environmental geochemistry and health* 18.4 (1996): 143-146.

7) Would there be any capacity to expand the literature search and augment with additional studies that might not be found in a traditional literature search (for example studies conducted by EPA, ATSDR with reports available), Also to go back to 1995 and include through 2017. For example, this is a key reference from 1995 Adgate, J. L., Weisel, C., Wang, Y., Rhoads, G. G., & Liroy, P. J. (1995). Lead in house dust: relationships between exposure metrics. *Environmental research*, 70(2), 134-147. I also wonder if we could augment with supplemental requests for raw data for very large studies. For example, I coordinated with Canada for statistical analysis of lead dust from their Canadian House Dust Study. I am aware of a few other reports/studies that might not be in the lit search because they wouldn't show up in web of science or proquest and could cross-walk if I had the studies that were included. This requires further discussion to clarify the scope of your project, and to identify potential leverage points for collaboration. It also will require discussions with ORD management.

8) The bottom-line question is, I am wondering if we can combine our efforts for literature searching and meta-analysis. I am happy to help where feasible, and would like to discuss what this may entail further by phone. This will also require further discussions with ORD management.

9) We would likely be able to provide some funds to help with the work if contractor support was used in the past and/or anticipated in the future, but are working under a very tight deadline and don't have very much person time to help-out. *contingent on path forward, and discussions with ORD management.

10) Is it possible/feasible to complete the above in the next month? Jessica will be traveling for work and training for several weeks in the month of February. It is highly unlikely that any significant changes can be accommodated within a month.

I look forward to future communications.

Thank you,
Jessica

From: Bevington, Charles
Sent: Friday, January 12, 2018 12:13 PM
To: Frank, Jessica <Frank.Jessica@epa.gov>
Cc: Xue, Jianping <Xue.Jianping@epa.gov>; Brown, James <Brown.James@epa.gov>; Zartarian, Valerie <Zartarian.Valerie@epa.gov>
Subject: RE: Lead Poster from ISES

Hi Jessica and all-

Thank you- Yes-this is the poster I was remembering. This is a very good project/effort! I also cecd your ORD co-author and a few other ORD scientists that I have collaborated with on lead projects. I have some follow-up questions. Please take a little time amongst yourselves before responding because this next set of question is trickier. Could you work together to respond by next Wednesday, 1/17?

There is an existing project for residential dust lead hazard standards. This meta-analysis would be very helpful for that project. It looks as though the meta-analysis was done in a very robust way, but some of the key details are missing from the poster. We also are working on a meta-analysis but our scope is smaller in that we are looking at studies that reported both dust lead and blood lead together with a few extra criteria and are also prioritizing national survey data.

- 1) Could you provide the studies that were identified in the literature search and included in the meta-analysis, specifically for dust?
- 2) Was a contractor used to conduct the literature search? Could you share the QAPP, if so?
- 3) Are there plans to publish this work in its current form?
- 4) Could you share the inclusion criteria for extraction?
- 5) Could you share how non-detects were treated, specifically for lead dust?
- 6) Did you track how often lead was reported in multiple media—for example dust + blood or with different metrics---dust loading + dust concentration?
- 7) Would there be any capacity to expand the literature search and augment with additional studies that might not be found in a traditional literature search (for example studies conducted by EPA, ATSDR with reports available), Also to go back to 1995 and include through 2017. For example, this is a key reference from 1995 Adgate, J. L., Weisel, C., Wang, Y., Rhoads, G. G., & Liroy, P. J. (1995). Lead in house dust: relationships between exposure metrics. *Environmental research*, 70(2), 134-147. I also wonder if we could augment with supplemental requests for raw data for very large studies. For example, I coordinated with Canada for statistical analysis of lead dust from their Canadian House Dust Study. I am aware of a few other reports/studies that might not be in the lit search because they wouldn't show up in web of science or proquest and could cross-walk if I had the studies that were included.
- 8) The bottom-line question is, I am wondering if we can combine our efforts for literature searching and meta-analysis.
- 9) We would likely be able to provide some funds to help with the work if contractor support was used in the past and/or anticipated in the future, but are working under a very tight deadline and don't have very much person time to help-out.
- 10) Is it possible/feasible to complete the above in the next month?

Charles Bevington
OPPT-RAD
Office: 202-564-8814
Telework Ex. 6 Personal Privacy (PP)
Hours: 8:00 am to 4:30 pm

From: Frank, Jessica
Sent: Monday, January 08, 2018 1:11 PM
To: Bevington, Charles <Bevington.Charles@epa.gov>
Subject: Fw: Lead Poster from ISES

Hello Charles,

Attached is a PDF copy of my poster. Let me know if you have any questions about the work.

Best regards,
Jessica

From: Frank, Jessica
Sent: Thursday, January 4, 2018 1:29 AM
To: Bevington, Charles
Subject: Re: Lead Poster from ISES

Hi Charles,

It's great from you! I will be returning from my travel next week. I will follow-up with a copy of the poster upon my return.

Happy New Year,
Jessica

From: Bevington, Charles
Sent: Tuesday, January 2, 2018 4:49:13 PM
To: Frank, Jessica
Subject: Lead Poster from ISES

Hi Jessica-

We met briefly at the exposure conference, and I asked you a few questions about your poster. If I recall correctly, your poster was about lead concentrations in many different media and explored background values. Could you share the poster?

-Thank you and Happy New Year

Charles Bevington
OPPT-RAD
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